WASECHKIN, V.E.

HARDYSHEV, I.I., doktor khimicheskikh nauk.

Textbook on the technology of wood extracts (*Technology of wood extracts.* V.S.Vasechkin, Reviewed by I.I.Bardyshev).

Der. i lesokhim.prom. 3 no.7:29 Jl '54. (MLRA 7:7)

(Wood-Chemistry)

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VASECHKIN, Yu. V., Candidate Tech Sci (diss) -- "Investigation of systems of rolling and glueing plywood tubing". Leningrad, 1959. 17 pp (Min Higher Educ USSR, Leningrad Order of Lenin Forestry Engineering Acad im S. M. Kirov), 150 copies (KL, No 26, 1959, 125)

VASECHKIN, Yu.V.

New practices in gluing the sections of veneer pipes and their economic effectiveness. Nauch. trudy LTA no.97:105-109 162.

(MIRA 17:2)

KULIKOV, Valentin Anatol'yevich, dots., kand. tekhn. nauk;

VASECHKIN. Yuriv Vasil'yevich, dots., kand. tekhn.

naul; MIKHAYLOV, A.N., dots., kand. tekhn. nauk,

retsenzent; SHEYDIN, I.A., kand. tekhn. nauk,

retsenzent; KIRILLOV, N.M., dots., kand. tekhn. nauk,

otv. red.; VASIL'YEVA, N.V., red.

[Technology of the production of gluing materials and slabs; laboratory manual for the students of the faculty of mechanical technology of wood] Tekhnologiia proizvodstva kleenykh materialov i plit; posobie k laboratornym rabotam (dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny). Leningrad, Vses. zaochnyi in-t, 1963. 83 p. (MIRA 17:12)

MIKHAYLOV, Aleksey Nikolayevich, dots., kand. tekhn. nauk; SHVARTSMAN, G.M., st. nauchn. sotr., kand. tekhn. nauk, retsenzent; NEKHAMKII, N.O., kand. tekhn. nauk, dots., retsenzent; VASECHKIN, Yu.V., dots., kand. tekhn. nauk, otv. red.; FILONENKO, K.D., red.

[Role of pressure in the technological process of the production of gluing matrials; lecture in the course "Technology of the production of gluing materials and boards" for students of the Faculty of the Mechanical Technology of Wood] Rol' davlenia v tekhnologicheskom protsesse izgotovlenia kleenykh materialov; lektsiia po kursu "Tekhnologiia proizvodstva kleenykh materialov i plit" dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhnu. in-t, 1964. 34 p. (MIRA 18:3)

MIKHAYLOV, Aleksey Nikolayevich, dots., kand. tekhn. nauk;

VASECHKIN, Yu.V., dots., kand. tekhn.nauk, retsenzent;

KOBLIKOVA, A.G., dots., kand. tekhn.nauk, ctv. red.;

BEZGODOVA, L.V., red.

[Ways for improving the technology and technique of veneer gluing; lectures in the course "Technology of the production of gluing materials and slabs" for the students of the faculty of mechanical technology of wood] Puti sovershenstvovaniia tekhnologii i tekhniki skleivaniia fanery; lektsiia po kursu "Tekhnologiia proizvodstva kleenykh materialov i plit" (dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny). Leningrad, Vses. zaochnyi lesotekhn. in-t, 1964. 53 p. (MIRA 17:12)

生物的 经营业制度的需要 或者的现在分

KAROV, Z.G.; PEREL'MAN, F.M., dr. khimicheskikh nauk; VASECHKO, R.F.

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1. Starshly prepodavatel' Kabardino-Halkarskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720004-6"

GMYRYA-NOVI, V.A.; KOVTUN, A.P.; LUK'YANOVA, O.N.; VASECHEO, T.V.

Induced potentials in the auditory area of the genetral cortex in trace conditioned reflexes. Zhur. vys. nerv. deiat. 12 no.4: 670-678 J1-Ag *62. (MIRA 17:11)

1. Bogomoletz Institute of Physiology, Ukrainian Academy of Sciences, Kiev.

GMYRYA-NOVI, V.A. [Hmyria-Novi, V.A.]; IUK'YANOVA, O.N. [Luk'ianova, O.M.];

VASECHKO, T.V.

Characteristics of evoked potentials of the auditory regions of the cerebral cortex. Fiziol. zhur. [Ukr.] 11 no.6:717-722 N-D '65. (MHA 19:1)

1. Laboratoriya vysshey nervnoy deyatel'nosti Instituta fiziclogii im. A.A. Bogomol'tsa AN UkrSSR, Kiyev. Submitted August 15, 1964.

POPELEK, Milan, inz.; VASEK, Jaroslav, inz.

Francisco de la companya de la comp

Typical schemes for mine working in the Ostrava-Karvina coalfield. Uhli 5 no. 12:407 D'63.

1. Vedecko-vyzkumny uhelny ustav, Ostrava-Radvanice.

VASEK, Jaroslav, inz.; POPEK, Milan, inz.; SKRICEK, Jiri

Problems of mechanization of low seam mining in the Ostrava-Karvina coalfield. Uhli 6 no. 8:270-272 Ag '64.

1. Scientific Institute of Coal Research, Ostrava-Radvanice.

POPEK, Milan, in: .; SUCHANEK, Josef, inz.; VASEK, Jaroslav, inz.; PAVLONKA, Frantisek, inz.

Within 31 workdays 118,327 tons of coal extracted at the May 1 mine. Uhli 6 no.11:386-389 N '64.

1. Scientific Research Institute of Coal, Ostrava-Radvanice (for all except Pavlonka). 2. May 1 mine (for Pavlonka).

POPEK, Milan, inz., VASEE, Jacoslav, Inz.

Mining thin coal seams by outter loaders. Unli 7 20,2:50-

53 165.

1. Scientific Research Institute, Ostrava-Radvanice.

VASEK, J., inz.; JEDLICKA, J., inz.

Main methods of calculating the rolling pressure in hot rolling and comparison of the results with measured values; discussion. Hut listy 18 no.4:268-273 Ap '63.

1. Fakulta banskeho strojnictvi, Vysoka skola banska, Ostuava (for Vasek).

VASEK, V.

Experiments with decreased doses in lumbar anesthetics with simultaneous intrathecal injection of vitamin B_1 and ephedrine. Lek. listy 6 no.13:400-402 1 July 1951. (CLML 20:11)

1. Of the Obstetric-Gynecological Clinic of Palacky University in Olomouc (Head -- Docent V. Vasek, M.D.).

VASEK, Vladimir, Doc., Dr.

Problems of menstruation disorders. Gesk. gyn. 19 no.3:
145-154 May 55.

1. UPMD v Praze-Podoli, reditel: prof. MUDr. J. Trapl, nositel
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(MENSTRUATION DISORDERS
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VASEK, V1., Doc., MUDr. s kolektivem spolupracovniku

Selection of antibiotics in the treatment of internal inflammatory gynecological diseases. Cesk. gyn. 21 no.4:233-238 June 56.

UPMD Praha, redited prof. Dr. Trapl, nosited Radu republiku.
 (GYNECOLOGICAL DISEASES, therapy, antibiotics (Cz))
 (ANTIBIOTICS, therapeuticuse, gyn. dis. (Cz))

Organization of care for women with inflammation of internal reproductive organs. Cesk. gyn. 22/36 no.1-2:96-101 Feb 57. 1. UPMD Praha-Podoli. Reditel prof. MUDr. Jiri Trapl. (ADNEXITIS, ther. indic. (Cz))

HENZL, Milan; VASEK, Vladimir, doc.

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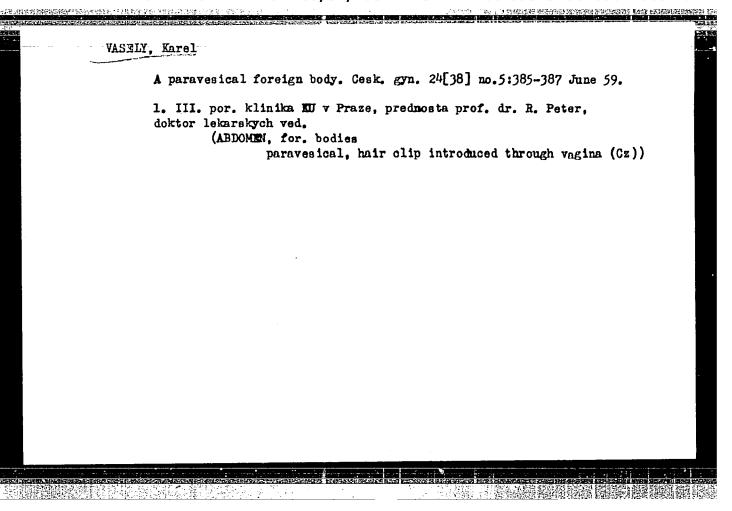
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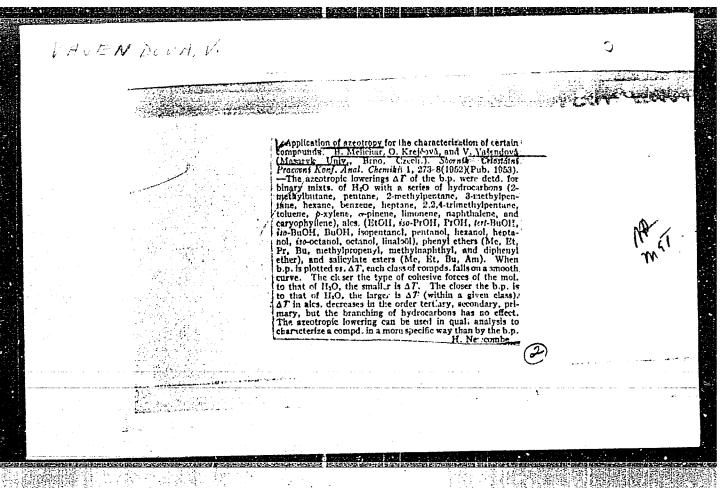
J. Trapl.

(ALMEXITIS immunol.)

(VACCINATION)

(PHAGOCYTOSIS)





VASENEVA, O. M.: Master Med Sci (diss) -- "The dynamics of morphological changes in subdermally transplanted tissues of placenta, spleen, and thyroid gland, under experimental conditions (On the problem of tissue therapy)". Khabarovsk, 1958. 24 pp (Khabarovsk State Med Inst), 220 copies (KL, No 7, 1959, 128)

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VASEIIII, A.A.

Virological studies in the focus of tick-borne encephalitis in territory of the southwest part of Irkutsk Province. Trudy Irk. NIIEM no. 7:48-57 '62 (MIRA 19:1)

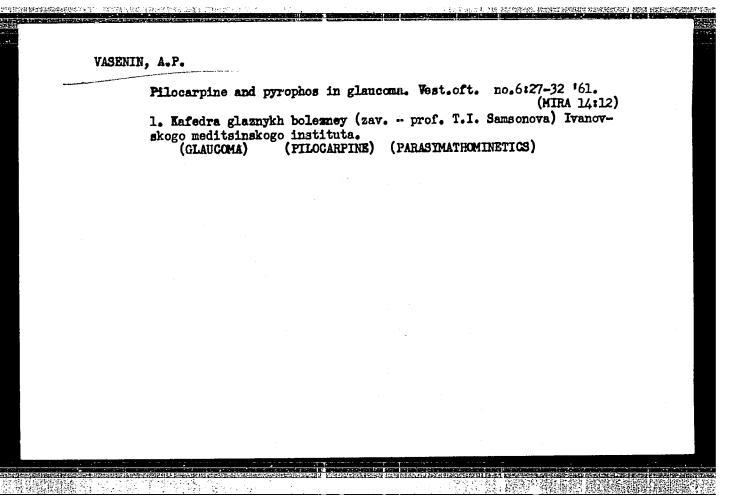
1. Iz otdela Zabolevaniy s prirodnoy ochagovost'yu Irkutskogo nauchno-issledovatel'skogo instituta epidemiologii i mikro-biologii.

YASENIN, A.D. У COUNTRY USSR Pharmacology and Toxicology. Cholinergic Agents CATEGORY ABS. JOUR. : RZhBiol., No. 5 1959, No. 23143 Vasenin, A. P. AUTHOR Ivanovsk Medical Institute INST. Armine, a New Myotic Drug in Ophthalmological TITLE Practice ORIG. PUB. : Sb. nauchn. tr. Ivanovek. med. in-ta, 1957, vyp. 13, 340-343 No abstract ABSTRACT : 1/1 Card:

VASENIN, A.P.

Mechanism of the action of cyclodialysis in patients with glaucoma. Vest. oft. no.4:21-24 '61. (MIRA 14:11)

1. Kafedra glaznykh bolezney (zav. - prof. T.I. Samsonova) Ivanovskogo gosudarstvennogo meditsinskogo instituta. (GLAUCOMA) (CYCLODIALYSIS)



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VASENIN, Aleksandr Yermolayevich; PERFIL'YEV, V.P., redaktor; STRUKOW,
A.N., redaktor; KHELEMSKAYA, L.M., tekhnicheskiy redaktor

[The mechanization of leading and unloading work in the postal service] Mekhanizatsiia pogruzochno-razgruzochnykh rabot v pochtovykh predpriiatiiakh. Moskva, Gos. izd-vo lit-ry po vo-prosam sviazi i radio, 1955. 45 p. (MIRA 9:2) (Loading and unloading) (Postal service)

VASENIN, A. Yo.

Mechanizing internal transportation system in the department of mail transportation. Vest.sviazi.16 ne.2:21-22 F '56. (MLRA 9:7)

1.Glavnyy inzhener Meskovskege upravleniya perevozki pechty.
(Postal service)

BARANOV, Pavel Aleksandrovich; URYUPIN, German Mikhaylovich; VASBNIN, A.Ye., otvetstvennyy redektor; SALITAN, L.S., redaktor; BERESLAVSKAYA, L.Sh., tekhnicheskiy redaktor

[Railroad mail cars] Pochtovye vagony. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1957. 443 p. (MIRA 10:6)

(Railway mail service--Cars)

VASENIN, A. YE

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PHASE I BOOK EXPLOITATION

SOV/2800

USSR. Ministerstvo svyazi. Tekhnicheskoye upravlemiye

Novyye razrabotki po organizatsii pochtovoy svyazi; informatsionnyy sbornik (New Developments in the Organization of Postal Communication; Collection of Informational Articles) Moscow, Svyaz'izdat, 1958. 166 p. (Series: Tekhnika svyazi) Errata slip inserted. 8,600 copies printed.

Additional Sponsoring Agency: USSR. Ministerstvo svyazi. Tsentral'nyy nauchno-issledovatel'skiy institut.

Resp. Ed.: A. Ye. Vasenin; Ed.: R.A. Kaz'mina; Tech. Ed.: K. G. Markoch.

PURPOSE: This book is intended for post office workers.

COVERAGE: This collection of articles discusses efforts of the Central Scientific Research Institute of Communications

Card 1/4

New Developments

SOV/2800

to organize and mechanize work processes in postal service establishments. It describes the organization of postal functions and ways to determine the efficiency of mechanized operations. Some articles discuss future development of the postal service. No personalities are mentioned. There are no references.

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Card 3/4		

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720004-6"

New Developments

SOV/2800

Barsuk, V. A. Method of Determining the Efficiency of Mechanized Parcel Sorting

130

Kostromina, A. G., and N. D. Nosonovich. System of Organizing and Mechanizing Production Processes for Expediting Periodicals in Large Postal Service Establishments

AVAILABLE: Library of Congress (HE 6237 .R85)

Card 4/4

JG/mmh 1-6-60

VASENIN, Aleksandr Yermolayevich; LAMM, I.A., otv.red.; KAZ'MINA, R.A., red.; MARKOCH, K.G., tekhn.red.

[Mechanization of transportation in postal establishments]
Mekhanizatsiia transportnykh operatsii v pochtovykh predpriiatiiakh. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i
radio, 1959. 53 p.
(MIRA 12:8)
(Russia--Postal service)

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VASENIN, A.Ye.

Automatic continuous lines for the processing of mail. Vest. sviazi 19 no.11:18-20 N 159. (MIRA 13:8)

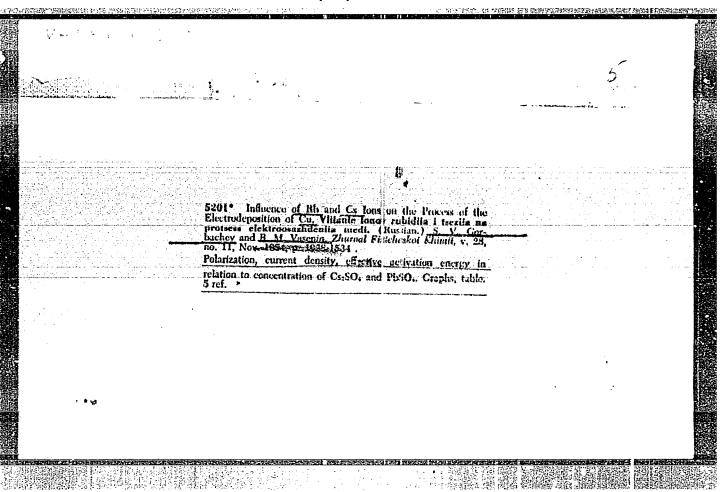
l. Nachal'nik laboratorii avtomatizatsii i mekhanizatsii pochtovykh predpriyatiy TSentral'nogo nauchno-issledovatel'skogo instituta svyazi.

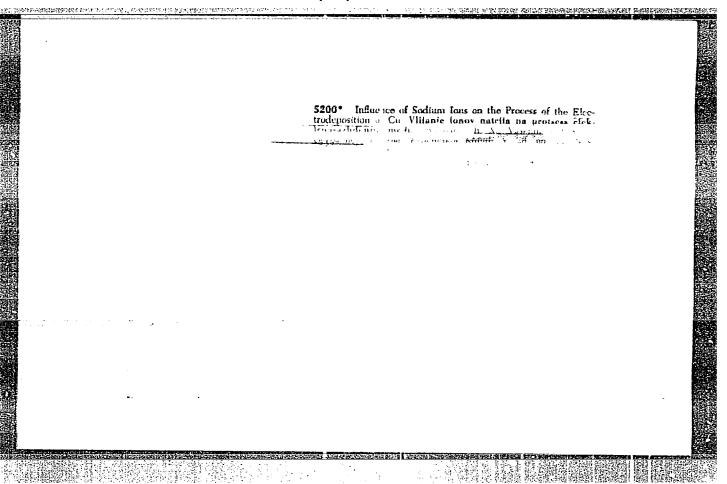
(Postal service -- Equipment and supplies)

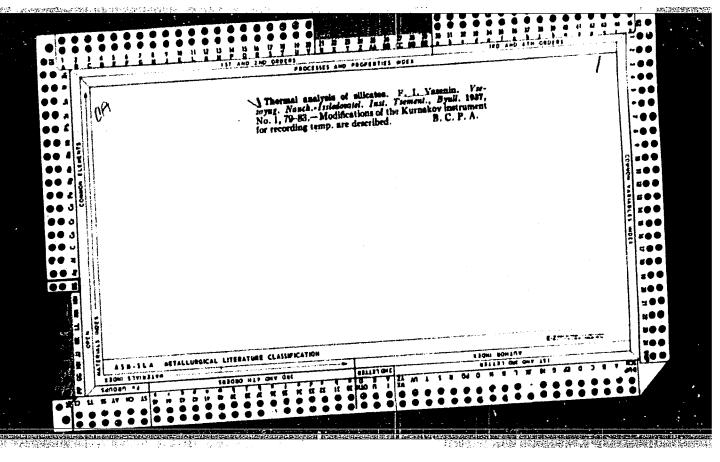
VAYNBERGER, Isaak Matveyevich; VASEMIN, Aleksandr Yermolayevich; IZRAILIT, Lev Abramovich; RZHETSKIY, Dmitriy Eorisovich; SPORIUS, Eduard Alekseyevich; TIKHCNOV, Vasiliy Fedorovich; FAYNSHTEYN, Vladimir Maksovich; LAMM, I.A., otv. red.; SAKHAROV, Ye.D., red.

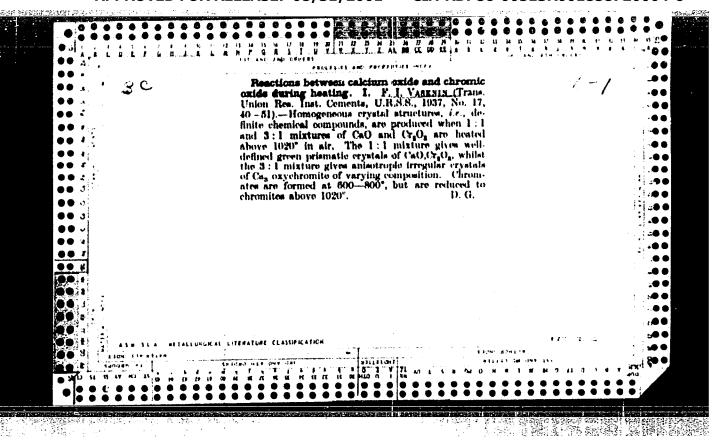
[Mechanication and automation of mail processing operations]
Mekhanizatsiia i avtomatizatsiia obrabotki pechty; informatisionnyi sbornik. Moskva, Izd-vo "Sviaz'," 1964. 77 p.
(EIRA 17:6)

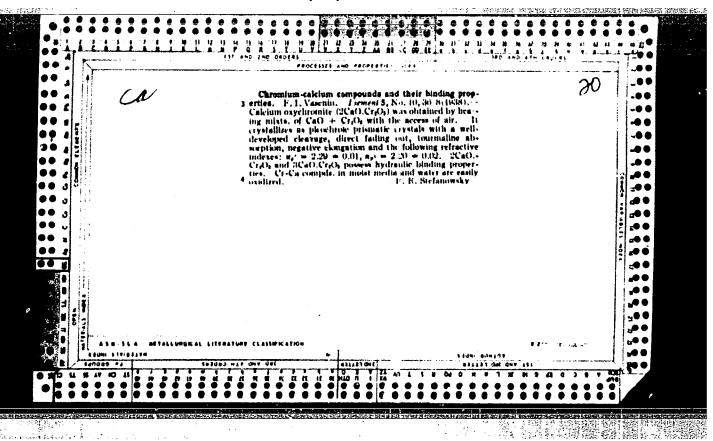
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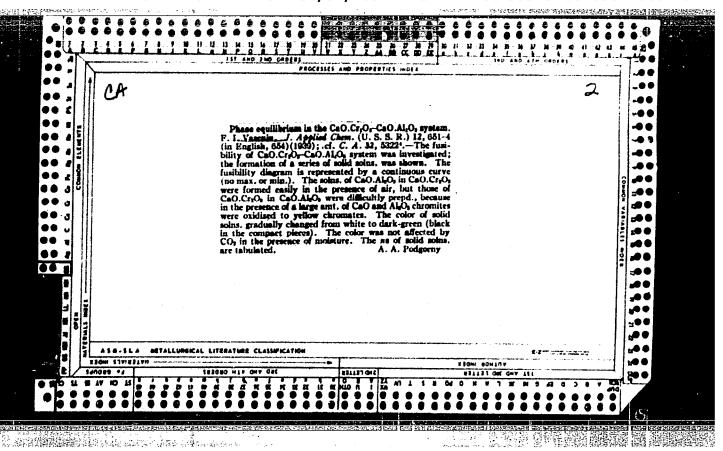


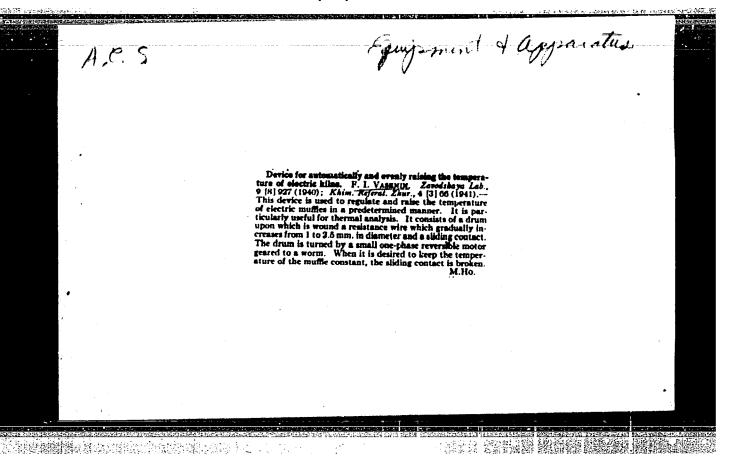


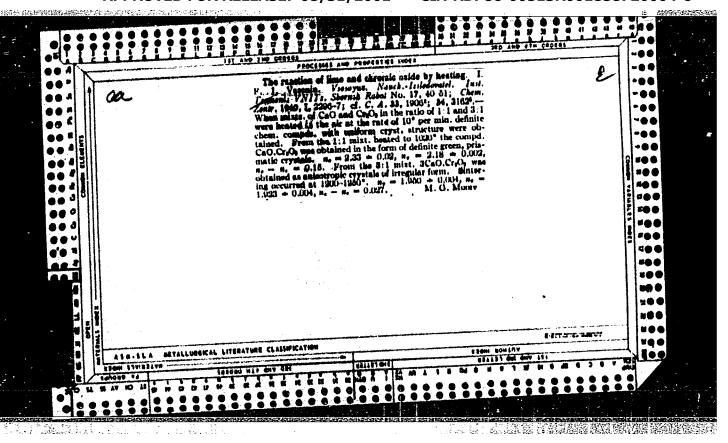


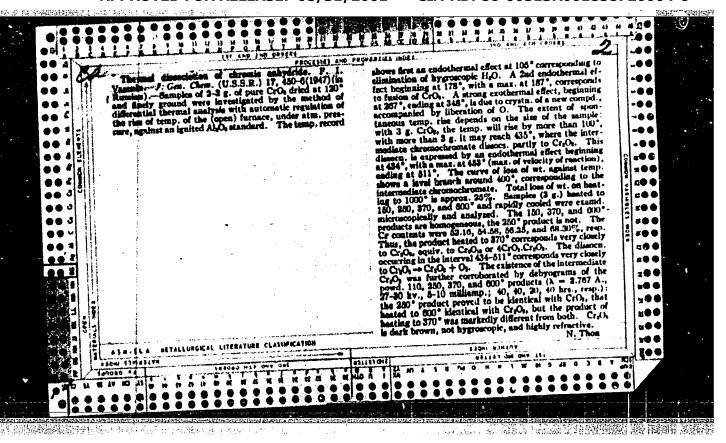


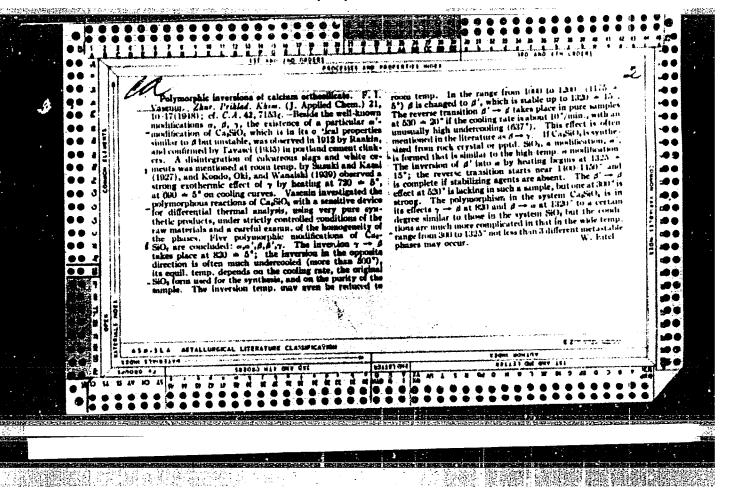


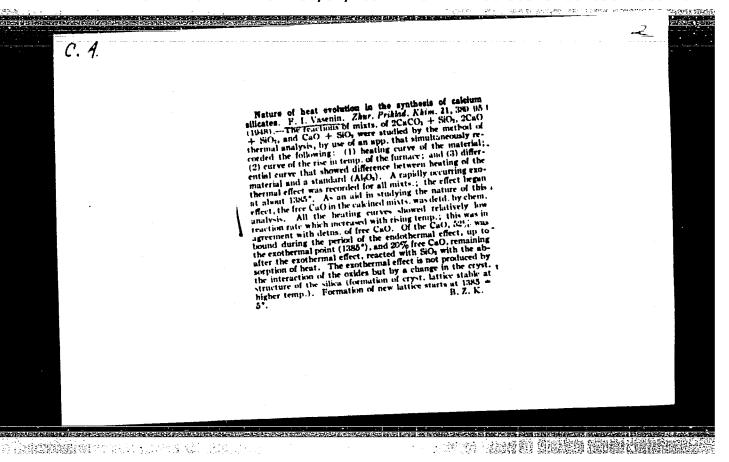


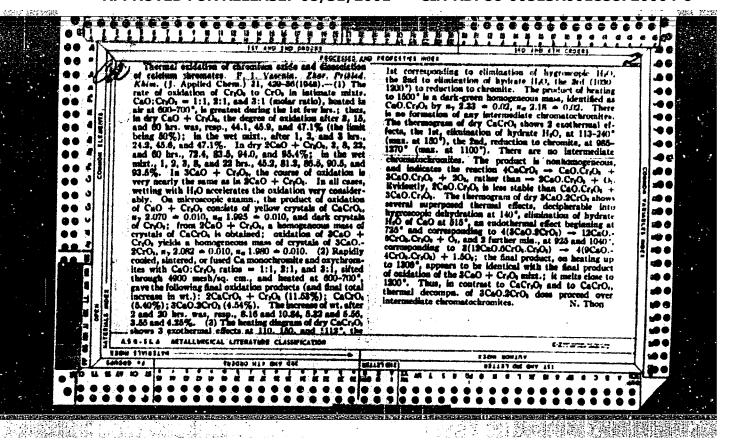


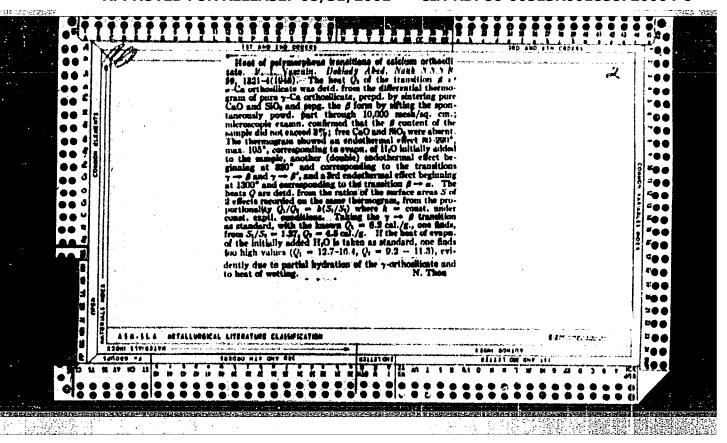


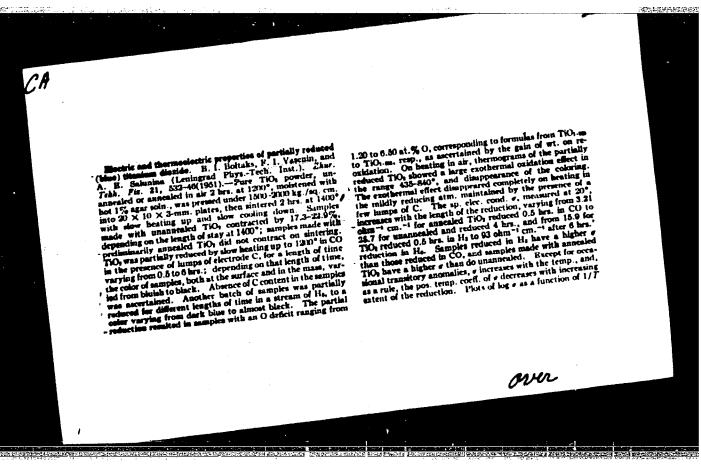








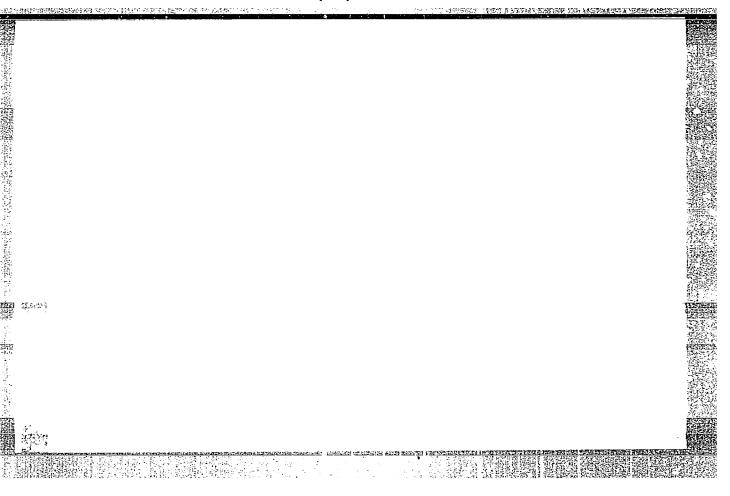




are not linear, i.e. the presaponential factor A in $\sigma = A_{10} - \Delta E_{10} E_{11}$ is not temp.-independent; linearity is restored if the temp, dependence of A is taken into account by $\sigma = A_{11} - \sigma/\sigma - \Delta E_{11} E_{11}$. By the slopes of the tangents, the electron discoen: energy ΔE_{1} , around room temp., is less than 0.2 e.v.; ΔR_{1} increases with increasing A_{1} . The thermoelec. e.m.f. σ (measured against Cu) is neg. throughout, i.e. all the TiO, samples are electronic conductors. Around room temp., a decreases with increasing length of reduction; for samples reduced in CO, σ varies from 415 microv./degree for 0.5 br. to 254 for 4 hrs., and for samples reduced in II, from 203 for 0.5 br. to 63 for 6 hrs. With increasing length of reduction, the temp. coeff. of σ passes from neg. (typical for semiconsinctors) to pos., which corresponds to the conce. so of electrons increasing with the temp, slower than 7%. No Hall effect could be detected; judging by the sensitivity of the app., the Hall const. must be smaller than 2 × 10° cc./coulomb, which corresponds to a greater than (3-4) × 10° / cc. and a mobility a of the order of 10° 1 = 10° 1 cm. 1/v. sec. If the effective mass ms of the electrons in partially reduced TiO, were identical with the mass ms of the free electron, a (caled, from the exptl. a) would be 5 × 10° - 5 × 10° / cc., and, with a of the order of 10-100 cm. 1/v. sec., σ would be of the order of 10-60 ohm 1 cm. 1, in agreement with the exptl. data, but then the Hall effect should be easily detectable. This discrepancy indicates a substantially streater n, and, consequently, on account of the

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high α , the effective mass m^* must of necessity be substantially greater than m_i ; this, in turn, corresponds to smaller n_i , which accounts for the relatively low α . The ratio m^*/m_0 can be end, roughly with the a2 of a moried in which the 2 electrons around the pos. vacancy (produced by the absence of 0^{--} in a lattice point) are treated as a Heilke atom, with the ionization energy $R = (24 \times 48)$ (m^*/m_0) (m



USSR/Physics - Semiconductors

FD-3196

Card 1/1

Pub. 153-5/28

Author

: Vasenin F. I.

Title

: Thermoelectric properties of alloys of the antimony-tellurium type

Periodical

: Zhur. Tekh. Fiz., 25, No 7, 1190-1197, 1955

Abstract

: Study of Sb-Te alloys revealed a slow decrease of thermo-e.m.f., dropping sharply in vicinity of stoichiometric ratio. Powder metallurgy facilitated the production of homogenous Sb-Te alloys with raised thermo-e.m.f. and conductivity. Thermal analysis proved that the m.p. of intermetallic compound is below the m.p. of Sb and equals 612°C. One foreign, one USSR references.

Institution :

: November 30, 1954 Submitted

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720004-6"

B-5

VASENIN, F.I.

USSR/Crystals.

Abs Jour

: Referat Zhur - Khimiya, No 6, 1957, 18243

: F.I. Vasenin, P.F. Konovalov.

: Ionization X-ray Study of Bismuth Telluride Structure Author Title

Zh. tekhn. fiziki, 1956, 26, No 7, 1406-1414 Orig Pub

: With a view to investigate the nature of the sign inversion of the thermo-emf, an x-ray study of the structure Abstract

of the Bi - Te alloy near the stoichiometric composition Bi2Te3 was carried out. The thermo-emf was measured before the alloy was pulverized (for preparing samples for x-ray photographing) by the method of compensation. The x-ray photographing was carried out with an ionozation installation described previously (RZhKhim, 1955, 9087), Cu radiation with a Ni filter was used. A connection between the inversion of the sign of the thermo-emf and a redistribution of the relative intensity of lines was

established. In alloys with the positive thermo-emf,

- 50 -

Card 1/2

112-57-8-16887

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, p 135 (USSR)

AUTHOR: Vasenin, F. I.

TITLE: From an Operating Experience (Iz opyta raboty)

PERIODICAL: Tr. 1-to soveshchaniya po termografii (Transactions of the First Conference on Thermography), Kazan', 1953, Moscow-Leningrad, Izd-vo AN SSSR, pp 48-52, report 52

ABSTRACT: To eliminate the effect of furnace line-supply voltage fluctuations on the results of a thermographic analysis that employed a differential recording of temperatures of 1,000 to 1,500° C, a third thermocouple was used with a mirror galvanometer that showed the temperature rise in the standard-containing crucible. A smooth uniform temperature rise in the furnace was attained by means of an automatic rheostat with variable-diameter wire consisting of a number of soldered sections. The rheostat drum was driven by a synchronous motor through a worm gear. The same end was attained by a regulating transformer whose slider was controlled by an electric motor through a reduction gear.

A.S.E.

Card 1/1

15-1957-3-3137

Referativnyy zhurnal, Geologiya, 1957, Nr 3, Translation from:

p 103 (USSR)

AUTHOR:

Vasenin, F. I.

TITLE:

Determination of the Nature of Cements by Thermal Analyses (Opredeleniye prirody tsementov metodom termichesko-

PERIODICAL: ABS TRACT:

go analiza)
Tr. 1-go soveshchaniya po termografii. Kazan', 1953. Moscow-Leningrad, Izd-vo AN SSSR, 1955, 308-313. Vystupleniya, 313.
The differential thermal curves of five samples of Port-

land cement, very similar among themselves, show two endothermic effects with maximums at 1150 to 1250 (expulsion of hygroscopic, adsorption, and hydrated water of silica and calcium silicates) and at 540° to 550° (dehydration of the hydrate of lime). If tripoli or sand is added during grinding, the endothermic effect at 5400 to 5600 disappears and an exothermic effect occurs at 8800 to 9200, due to the recrystallization of free alumina. Under such circumstances, the area affecting the dehydration of calcium silicates is increased at the expense of losing the effect of dehydration of lime hy-

drate, and the maximum of the silicate reaction is

Card 1/2

15-1957-3-3137

Determination of the Nature of Cements by Thermal Analysis

shifted in the direction of higher temperatures. The thermal curves of alumina and aluminum-silicate cements, rarely distinguished on thermal curves of Portland cement, are very similar to each other in the type and temperature of the effects. They all have one large, complex endothermic effect in the range of 100° to 400°. Against the background of this effect, three deflections are distinguished, reflecting the stap-like loss of water combinations which had formed subsidiary cement. The expulsion of combined water occurs in stages at 110° to 130°, 180° to 200°, and 280° to 300°. In samples of cemented aggregate several years old, the separate deflections against the background of the general endothermic effect become faint or disappear entirely. The thermal curves were obtained by heating the samples at the rate of 10°/minute. The sample consisted of 10 grams of powder produced from hardened cement or from concrete. The standard--alumina--was heated to 1300°. All the differential curves were obtained under uniform experimental conditions.

Card 2/2

Ye. P.V.

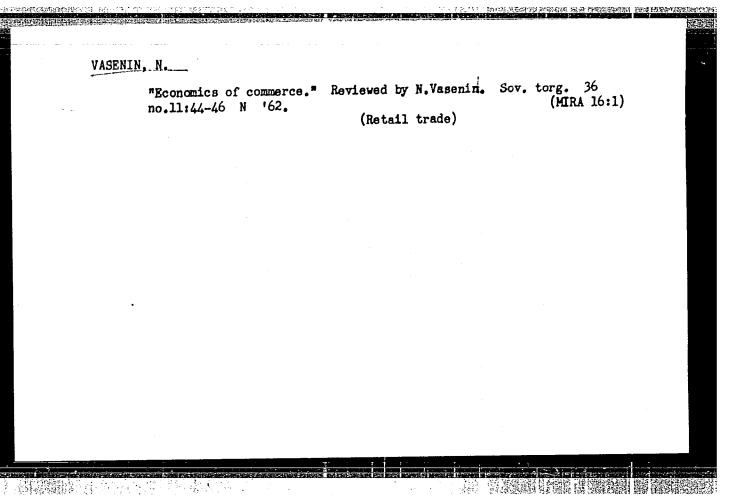
THE CONTRACTOR STRUCTURES AND STRUCTURE IN STRUCTURES.

Reorganizin	g wages in the re	etail trade.	Sov.torg.	torg. no.6:11-15 (MLRA 10:8)	o:8)
Je '57.	(Retail trade)	(Wages)		• . •	:

VASENIN, N.

Prepare for the change-over to a shortened workday.
Obshchestv.pit. no.12:1-2 D '59. (MIRA 13:4)

1. Hachal'nik otdela truda i zarabotnoy platy Ministerstva torgov11 RSFSR.
(Hours of labor)
(Restaurants, Lunchrooms, etc.--Employees)



163	Indices of labor productivity. Sov. torg. 36 no.4:23-25 Ap (63. (MIRA 16:5) (Retail trade—Labor productivity)							

BEK-KAZAROV, f.T., dots.; VASENIN, N.I.; KAMINSKIY, Ya.A., dots.;

OPLOV, G.F., dots.; PASHKOV, B.I., dots.; SEREBRYAKOV, S.V.;

prof.; FEL'DMAN, I.M., dots.; STARCHAKOVA, I.I., red.;

MAMONTOVA, N.N., tekhm. red.

[The organization and techniques of trade]Organizatsiia i tekhnika torgovli. [By]P.T.Bek-Kazarov i dr. Moskva, Gostorgizdat, 1962. 464 p.

l. Nachal'nik otdela truda i zarabotnoy platy Ministerstva torgovli RSFSR (for Vasenin).

(Commerce)

VASENIN, Nikolay Ivanovich; ZHARENKOV, Ye.V., red.; EL'KINA, E.M.,
tekhn. red.

[Wages for the workers of state commerce]Oplata truda rabotnikov gosudarstvennoi torgovli. Moskva, Gostorgizdat, 1962. 66 p.
(MIRA 16:3)

(Wages) (Russia—Commerce)

FORM, Georgiy Yakovlevich; Vicenin R.I., red.; In Yushin,
A.P., red.

[Work and wages in state commerce; collection of regulatory materials] Trud i zarabotnaia plata v gosudarstvennoi torgovle; sbornik rukovodinshchikh materialov.

Izd.3., perer. Moskva, Ekonomika, 196v. 302 p.

Mikh 17:8)

VASENIN, R.M.

Vasenin, R.M. -- "The Effect of Ions of Alkali Metals on the Process of the Electrodeposition of Copper." Cand Chem Sci, Moscow Chemoco-technological Inst, Moscow 1953. (REFERATIVITY ZHURNAL -- KHIMIYA No 1, Jan 54)

Source: SUM 168, 22 July 1954

Clem Abo, V. 48,

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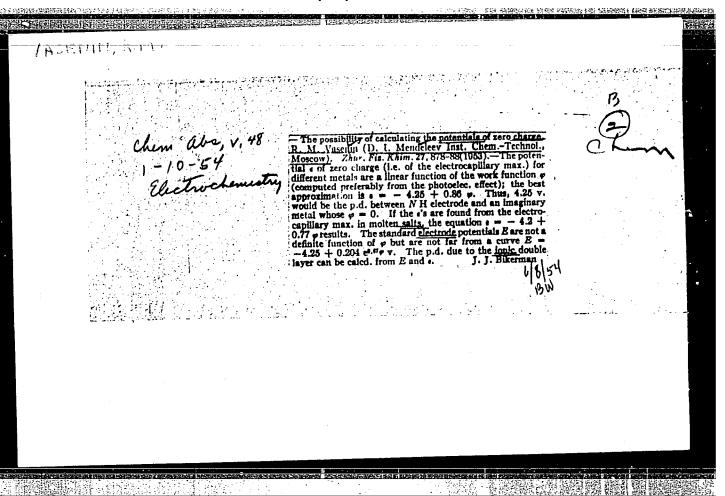
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"APPROVED FOR RELEASE: 08/31/2001 CIA

CIA-RDP86-00513R001858720004-6

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Neme

Title of Work

Mominated by

Corbachev, S.V.
Historiutev, H. Ye.
Izmeylov, 4.V.
Starostenko, Ye.P.
Vasenin, R.Y.
Zhuki, M.P.

"Investigations in the Field of the Kinetics of Cleatrockerical Descripts" Marcow Che icob einclorical Institute ineni B.I. Mandalepev

80: W-30604, 7 July 1954

VASENIN, R.M.

USSR/Chemistry - Electrodeposition

Card 1/1

Pub. 147 - 19/26

Authors

: Gorbachev, S. V., and Vasenin, R. M.

Title

Effect of potassium ions on the copper electrodeposition process

Periodical:

Zhur. fiz. khim. 28/1, 135-146, Jan 1954

Abstract

The polarization of a Cu electrode during Cu deposition in the presence of potassium ions of various concentrations, introduced in the form of K2SO41 was investigated. A connection between the phase-polarization and other forms of polarization and the gradual conversion of the phase polarization into concentrational was observed during an increase in the potential which occurs during constant potassium ion concentration and during increase in potassium ion concentration at a constant potential. The effect of K+ on the activation energy of concentrational polarization is explained. The current density in all instances, with exception of high temperatures or low potentials, was found to be decreasing under the effect of K2SO4. Twenty-one references: 20-USSR and 1-German (1917-1953). Graphs; drawings.

Institution: The D. I. Mendeleyev Chemical-Technological Institute, Moscow

Submitted: April 10, 1953

VASENIN, R.M.

MINDOVICH, Ye.Ya.

Some remarks on the article of R.M. Vasenin *Possibilities of calculating zero-charge potentials. Zhur.fiz.khim. 28 no.4:757-759 Ap 154.

1. Politekhnicheskiy institut, Kafedra fizicheskoy khimii, Gdan'sk (Pol'sha) (Potential, Theory of) (Blectrochemistry)

ASENIN, R.M.

USSR/Chemistry - Physical chemistry

Card 1/1

Pub. 147 - 18/27

Authors

Vasenin, R. M.

Title

In answer to the comments by E. Ya. Mindovich (Discussion)

Periodical

Zhur. fiz. khim. 28/9, 1672-1675, Sep 1954

Abstract

The comments made by E. Ya. Mindovich regarding the report entitled, "About the Possibility of Calculating Zero Charge Potentials", are rebutted by the author (R. M. Vasenin). Facts are presented showing that the value and sign of an electrode surface-charge is determined by the relative position of the normal electrode-potential and the potential of the zero charge. Examples supporting these facts are listed. In rebutting the comments the author points out that a normal electrode potential of Ni is more positive than the electrode potential of Cd. Fifteen references: 14-USSR and 1-USA (1928-1954).

Table.

The D. I. Mendeleyev Chemical-Technological Institute, Moscow Institution:

Submitted

: March 20, 1954

VasENim, R. M.

USSR/Chemistry - Electrodeposition

Card 1/1 Pub. 147 - 13/25

Authors

Gorbachev, S. V., Vasenin, R. M.

Title

The effect of lithium ions on the process of Cu electrodeposition

Periodical

Zhur. fiz. khim. 28/10, 1795-1803, Oct 1954

Abstract

The conversion of phase polarization into concentrational and chemical polarization was established experimentally during the study of cathodic polarization during Cu deposition in the presence of lithium ions. The effect of Li₂SO₄ concentrations and temperature on cathodic polarization, effect of Li₂SO₄ concentrations and temperature on cathodic polarization, during Cu deposition in the presence of Li-ions, is explained. The dependence of the current density upon the concentration of the foreign electrolyte was investigated in the presence of Li-ions. The increase in the rate of the electrode process in the presence of Li ions was found to be connected with the structural changes in the hydrate shell of the reacting ion caused by the hydration of the foreign cations. Nine USSR references (1930-1954). Table; graphs.

Institution:

The D. I. Mendeleyev Chemical-Technological Institute, Moscow

Submitted

February 21, 1954

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858720004-6

VASENIN, R.M.

USSR/Chemistry - Physical chemistry

Card 1/1

: Pub. 147 - 8/22

Authors

: Vasenin, R. M., and Gorbachev, S. V.

Title

: Effect of Ma-ions on the Cu electrodeposition process

Periodical : Zhur. fiz. khim. 28/11, 1922-1927, November 1954

Abstract

A study of cathodic polarization during Cu deposition in the presence of Na-ions revealed a smooth transformation of the phase polarization into concentrational, followed by an increase in the applied potential. Results obtained by adding a certain amount of Ma-ions into the copper sulfate solution are described. The relation between the increase in the rate of the electrode process and the degree of Cu-ion hydration, which takes place under the effect of secondary eation hydration, is explained. The thermal dependence of viscosity and electrical conductivity of the solutions was investigated and the results are tabulated. Six USJR references (1930-

1954). Table; graphs.

Institution:

The D. I. Hendeleyev Chemical Technological Institute, Hosson

Submitted

February 21, 1954

VASENIN, RIM.

USSR/Chemistry - Physical chemistry

Card 1/1

: Pub. 147 - 9/22

Authors

Gorbachev, S. V., and Vasenin, R. M.

Title

Effect of No and Cs-iens on the Cu electrodeposition process

Periodical :

Zhur. fiz. khim. 28/11, 1928-1934, November 1954

Abstract

Experiments were conducted to determine the effect of Rb and Cs-iens on the cathode process of Cu-deposition. The effect of No and Cs salt addition to the solution on the electrode polarization and current density is explained. The increase in the effective activation energy, observed during the increase in cesium sulfate concentration, reaches a maximum only at low potentials and high addition-concentrations. The relation between the secondary cation concentration, at which the rate of origin nation of motel crystellites is equal to the rate of feeding and discharge of metal ions, and the nature of the secondary cation, is discussed.

Five USSR references (1943-1954). Tables; graphs.

Institution:

The D. I. Hendeleyev Chemical Technological Institute, Moscow

Submitted

出於**阿拉拉斯**斯斯特 (1)

February 21, 1954

LSSR/Chemistry - Motallurgy

Card 1/2 : Pub. 147 - 10/27

Authors : Vasenin, R. M., and Gorbachev, S. V.

Title : Effect of alkali-metal ions on the Gu electrodeposition process

Periodical : Zhur. fiz. khim. 28/12, 2156-2169, Dec 1954

The factors which must be taken into consideration during the study of the effect of foreign cations on the Cu electrodeposition process are discussed. It was found that the attraction intensity of ions depends upon their deformability in the electrical field of the electrode. An increase in the ion electron polarization coefficient is followed by an increase in the reaction energy between the ion and the metal surface which in turn increases the cathode polarization and reduces the current density. Foreign cations of greater hydration energy and low polarization coefficient increase the rate of the electrode process. It was established that the effective activitation energy of

Zhur. fiz. khim. 28/12, 2156-2169, Dec 1954

(Additional Card)

THE SPANISH REPORTS OF THE SPANISH STATES OF

Card 2/2

Abstract

concentrational polarization is the linear function of the electron polarization coefficient which in turn depends upon the polariz-

ability of the foreign cation. Twenty-two USSR references (1930-1954).

Tables; graphs

Institution:

The D. I. Mendeleyev Chemical-Technological Institute

Submitted

65.对到阿特拉。1

February 21, 1954

VOK'FKOVICH, Semin Isaakovich, akademik; VASRNIN R.H., redaktor izdatel'stva; POLIVANOVA, Ye.B., tekhnicheEkly redaktor

[Chemistry in agriculture] Khimila i sel'skoe khozialstvo. Moskva,
Izd-vo Akademii nauk SSSR, 1956. 87 p. (MLRA 9:8)

(Agricultural chemistry)

VASENIN R.M.

USSR/Physical Chemistry - Electrochemistry

B-12

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 3952

Author

Title

: Dependence of Overvoltage on Electrode Material

Orig Pub

Zh. fiz. khimii, 1956, 30, No 3, 629-638

Abstract

: The author expounds the notion concerning the decisive influence of magnitude and sign of the potential of double ionic layer upon kinetics of processes of electrolytic evolution and ionization of hydrogen and oxygen. There is proposed an empirical equation which formulates a quantitative correlation between hydrogen over voltage η , values of double ionic layer potentials and metal. hydrogen bond energy. In the opinion of the author the notions advanced by him explain the known empirical regularities that correlate the n of hydrogen with quantities which characterize the nature of the electrode metals, including also with the potentials of zero

Card 1/2

- 193 -

CIA-RDP86-00513R001858720004-6 APPROVED FOR RELEASE: 08/31/2001

USR/Physical Chemistry - Electrochemistry

B-12

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 3952

charge of metals, electron emission work, compressibility and atomic radii. On the basis of an analysis of experimental data reported in the literature, there is noted the existence of a certain correlation between η of exygen and the double ionic layer potential of oxygen electrode.

(MIRA 13:6)

VASENIN, R.M. Concentration dependence of the diffusion coefficient of organic substances in polymers. Vysokom. soed. 2 no.6:851-856 Je '60.

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. (Diffusion) (Polymers)

CIA-RDP86-00513R001858720004-6" APPROVED FOR RELEASE: 08/31/2001

Diffusion coefficient and the nature of the diffusing molecules. Vysokom.soed. 2 no.6:857-863 Je '60. (MIRA 13:6)		
	institut legkoy promyshlennosti. (Polýmers)	
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11.2000

Vasenin, R. M.

AUTHOR:
TITLE:

Adhesive pressure in the diffusion theory of adhesion of poly-

mers

PERIODICAL: Vysokomole

Vysokomolekulyarnyye soyedineniya, v. 3, no. 5, 1961, 679-685

TEXT: Based on the diffusion theory of S. S. Voyutskiy (Ref. 2: Autogeziya i adgeziya vysokopolimerov (self-adhesion and adhesion of high polymers), Gostekhizdat, M., 1960), the author studied the adhesion of polymers. Mutual diffusion occurs on contact of two polymers. The strength of the resulting adhesion (adhesive pressure) is proportional to the quantity of end groups of diffuse macromolecules and to the depth of their diffusion. The mutual diffusion to depth n₁, n₂ is given by

mutual diffusion to depth n_1 , n_2 is given by $F_{adh} = 0.5N^{2/3}_{myv} \left\{ \left[(2 + p_1) q_1 / M_1 \right]^{2/3} n_1 + \left[(2 + p_2) q_2 / M_2 \right]^{2/3} n_2 \right\}$ (5),

(N = Avogadro number, m = mass of atomic group, v = collision frequency of the group with neighboring molecules, v = tearing rate, p_1 , $p_2 = number$ of

Card 1/5

22559 S/190/61/003/005/002/014 B101/B218

Adhesive pressure ...

branchings of the macromolecule, Q_1 , Q_2 = density, and M_1 , M_2 = molecular weight of the two polymers). On the strength of the second Fick law, a number of groups diffusing during the time t is calculated from $\partial c/\partial t = D(t)\partial^2 c/\partial x^2$ (6) (D = coefficient of diffusion, c = concentration), and the new variable T is introduced: $dT = K_D(1 - \beta)t^{1-\beta}dt$ (7) ($\beta \neq 1$) so that one obtains: $\partial c/\partial T = \partial^2 c/\partial x^2$ (8). The author derives $c = c_0(1 - x/\sqrt{\pi}T)$ (12). For x = 0.5c it follows that $x = (\sqrt{\pi}/2)\sqrt{T}$ (13). From Eq. (7), it follows that $T = K_Dt^{1-\beta}$ (14), By substituting (14) in (13) one finds $x = (\sqrt{\pi}/2)\sqrt{K_Dt^{1-\beta}}$ (15). Since for a molecule of maximum stretch $x = nl\cos(2^2)$ (16), $n = \sqrt{\pi K_Dt^{1-\beta}/2l\cos(2)}$ (17), Eq. (5) assumes the form $F_{adh} = (N^{2/3}\sqrt{\pi}/4l \cdot \cos(2)m)\sqrt{[(2 + p_1)Q_1/M_1]}$ $2/3\sqrt{K_D}$ + $(2 + p_2)Q_2/M_2$ 2/3. $\sqrt{K_D}$ $\sqrt{K_D}$ $\sqrt{K_D}$ $\sqrt{K_D}$ (18). In the case of polymers containing only the groups CH_3 , CH_2 , CH_3 , CH_4 . (18) is reduced to $\sqrt{K_D}$ \sqrt

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Adhesive pressure ...

and for self-adhesion one obtains $F_{\text{self}} = 11.1 \text{ y} \left[(2+p) \zeta/N \right]^{2/3} K_D^{1/2} \right] \text{ vt}^{(1-\beta)/2} \qquad (20). \text{ Since experimental data are missing for } K_D \text{ and } K_D^2, \text{ the author restricts himself to calculating the strength of self-adhesion from Eq. (20). Fig. 1 shows the result obtained for polyisoprene of varying molecular weight. Here, the author assumed: <math display="block">V = 10^{13} \text{ sec}^{-1}; \ V = 0.445 \text{ cm/sec}; \ p = 0; \ Q = 1; \ \beta = 1/2 \text{ (at 25°C)}. \text{ K}_D \text{ was set equal to the absolute value of the diffusion coefficient D of the isoprene link in polyisoprene (at 25°C): <math display="block">D = (D_1/n\sigma \cdot)(2n-q)/(2n-2q) \quad (21)$ (D₁ = diffusion coefficient of methane at 25°C, n = number of C atoms, q = number of double bonds in the molecule, $\sigma = \text{relative cross section of the molecule}, \gamma = \text{constant which, for polyisoprene, is equal to 1)}. It was found that K_D = 2·10⁻⁷ cm²/sec⁻³/2. A discussion of the calculated values has shown that the adhesive pressure is directly proportional to the 2/3 power of the actual branchings of the molecule, inversely proportional to$

the same power of the molecular weight, and directly proportional to the

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Adhesive pressure ... B101/B218

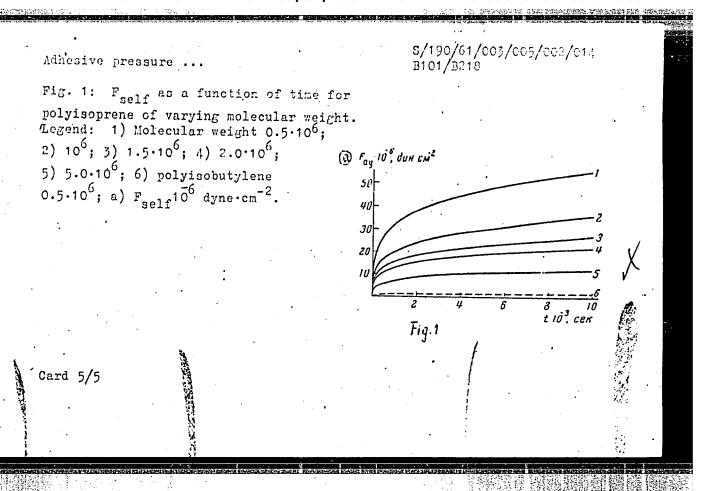
tearing rate; further, it increases with time following a parabolic law. The curve of Fig. 1 for polyisobutylene shows diffusion as a function of the nature of the polymer. The author thanks S. S. Voyutskiy for discussions B. V. Deryagin is mentioned. There are 4 figures and 14 references: 7 Soviet-bloc and 7 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: J. Crank, The Mathematics of Diffusion, Oxford, 1956; S. Prager, E. Bagley, F. A. Long, J. Amer. Chem., Soc., 75, 1255, 1953; A. Aitken, R. M. Barrer, Trans. Faraday Scc., 51, 116, 1955; R. J. Kokes, F. A. Long, J. L. Hoard, J. Amer. Chem. Soc., 75, 6142, 1953,

ASSOCIATION: Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti

(Moscow Technological Institute of the Light Industry)

SUBMITTED: July 18, 1960

Card 4/5



Diffusion coefficient and the nature of diffusing molecules.

Vysokom.soed. 3 no.8:1220-1223 Ag '61. (MIRA 14:9)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Diffusion) (Polymers)

VASENIN, R.M., kand. khim. nauk, dotsent

是**对加强的**。

Some problems of the theory of the adhesion of high polymers.

Nauch. trudy MTILP no.26:46-68 '62. (MIRA 17:5)

l. Kafedra fizicheskoy i kolloidnoy khimii Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

ACCESSION NR: AR4042245

S/0081/64/000/008/S019/S019

SOURCE: Ref. zh. Khimiya, Abs. 8597

AUTHOR: Vasenin, R. M.

TITLE: Work of separation in diffusion theory of adhesion of polymers

CITED SOURCE: Sb. Vy* sokomolekul. soyedineniya. Adgeziya polimerov.

M., AN SSSR, 1963, 17-22

TOPIC TAGS: polymer, adhesion, diffusion theory, adhesion diffusion theory

TRANSLATION: Gives a quantitative treatment of the adhesion diffusion theory, based on following positions: autoadhesion and adhesion of mutually soluble polymers is the result of intermolecular interaction of diffusing parts of the molecules; end segments play a basic role in diffusion; work of separation includes not only the expenditure of energy on breaking the adhesional bonds but also the expenditure of energy on elastic deformations of polymer chains. Expressions are obtained

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ACCESSION NR: AR4042245

for the work of separation at small and great depth of interpenetration of macromolecules. The question of the mean value of depth of penetration, that is, of the length of the diffusing part of macromolecule, which is in the surface layer of the other polymer, is considered. Also considered is the change in the coefficient of diffusion caused by the continuous increase in the length of the diffusible part of the macromolecule. It was determined that, depending upon depth of penetration, the relative role of the work of adhesion and that of the work of elastic deformations change. At small depth (time of contact is small), the work of separation is determined only by the work of adhesion, and at great depth, by the work of elastic deformations. The equations derived connect the work of separation with the time of contact of samples, the molecular weight and mobility of molecules (flexibility, branching, nature of substitutes, etc.). At a small depth of penetration, the work of separation is the reciprocal of the molecular weight of the polymer to the 1/3 power, and at great depth, to the 2/3 power. The limit of applicability of equations and the moment of time at which there occurs the change in the mechanism of destruction of adhesion bond are determined. It is a function of the magnitude of the chemical and molecular forces and mobility of the macromolecules.;--

SUB CODE: OC, GC

ENCL: 00

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2/2

ACCESSION NR: AR4042247

5/0081/64/000/008/5019/5019

SOURCE: Ref. zh. Khimiya, Abs. 8599

AUTHOR: Vasenin, R. M.

TITLE: The role of elastic deformations of polymer chains in adhesion, studied

by the separation method

CITED SOURCE: Sb. Vy sokomolekul. soyedineniya. Adgeziya polimerov. M., AN SSSR,

1963, 12-16

TOPIC TAGS: polymer chain, adhesion, elastic deformation

TRANSLATION: During separation of an adhesional compound formed by means of interpenetration of chains, there occurs straightening of the macromolecules diffusing from one sample of polymer to another, their elastic deformation and extraction or breaking off along chemical bonds. The (amount of) energy necessary for carrying out each of these processes depends on the depth of interpenetration of the macromolecules. It was determined that with a small depth of penetration the work of separation is determined by the energy expended on surmounting intermolecular forces,

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ACCESSION NR: AR4042247

while at great depth, when chains are broken along chemical bonds, by (the energy expended) on elastic deformation of macromolecules. The energy entering in the straightening of chains (elastic deformation) is, at any depth of penetration, less than the remaining component of work of separation. Calculations show that the energy of elastic deformation attains a magnitude of 10⁵ to 10⁶ erg/cm², is equal to the work of separation only in the case when deformation are subjected macromolecules containing in their chains a main valence of 10⁵ and more bonds. Therefore it is assumed that as a result of interlacing of chains in the process of deformation, during separation the macromolecules of both samples nearest to the discontinuity are involved, and elastic deformations start to play a decisive role with a smaller depth of penetration. From author's abstract.

SUB CODE: OC. SS

ENCL: 00

Card | 2/2

ACCESSION NR: AR4042246

5/0081/64/000/008/5019/5019

SOURCE: Ref. zh. Khimiya, Abs. 8S98

AUTHOR: Vasenin, R. M.; Gromov, V. K.; Vakula, V. L.; Voyutskiy, S. S.

TITLE: Kinetics of the establishment of autoadhesion bond between polymers of different molecular weight

CITED SOURCE: Sb. Vy*sokomolekul. soyedineniya. Adgeziya polimerov. M., AN SSSR, 1963, 52-57

TOPIC TAGS: polymer, autoadhesion bond

TRANSLATION: The method of separation is used to investigate the kinetics of formation bond adhesion of five fractions of polyisobutylene with molecular weights of 0.75.105 to 2.4.106. Work of separation increases with time of contact by exponential law. The less the molecular weight of the fraction, the faster will the autoadhesion bond will be formed. An increase in the contact temperature has an analogous influence. Experimental data are compared with theoretical curves

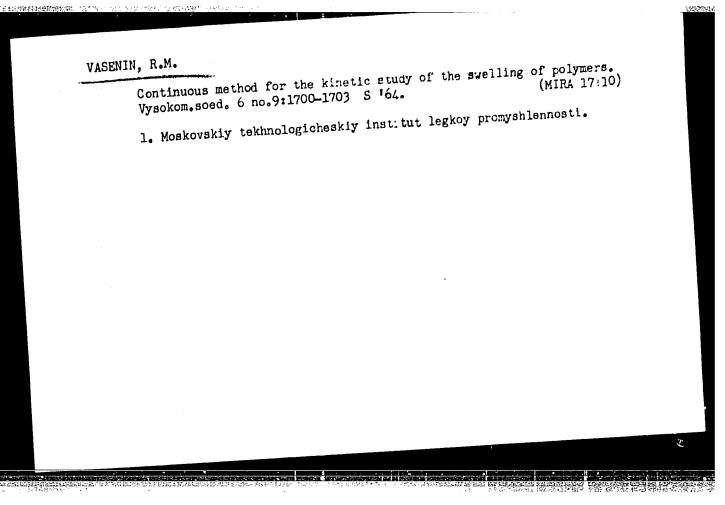
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VASENIN, R.M.

Kinetics of the awelling of polymers. Vyskom. soed. 6 no.4: 624-629 Ap 164. (MIRA 17:6)

1. Moskovskiy tekhnologicheskiy institit legkoy promyshlennosti.



CHERNOVA, I.V.; VASIMIN, R.M.

Diffusion of alcohols in polyamide. Vysokom.soed. 6 nc.9:1704-1707 S *64. (MIRA 17:10)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.

KUZNETSOV, A.R.; VASENIN, R.M.; PAVLOV, N.N.

Kinetics of swelling of SKS-30-1 latex films. Koll. zhur. 26 no.62692-696 N-D '64 (MIRA 18:1)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.

CHALYKH, A.Ye.; VASENIN, R.M.

Diffusion of solvents in polyisobutylene. Vysokom. soed. 7 no.4:586-592 Ap '65. (MIRA 18:6)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.

Washin, R.M.; Chalykh, A.Ye.; Kokobko, V.I.

Moving boundary problem in diffusion in the polymer - solven:
systems. Vyackom. soed. 7 no.4:593-600 Ap '65.

(MIRA 18:6)

1. Moskovskiy tekhnologicheskiy institut legkcy promyshlennosti.